

$^{12}\text{C}(^{14}\text{N},^{14}\text{N})$ **1975Aj02**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, J. E. Purcell and C. G. Sheu		NP A968, 71 (2017)	1-Jan-2017

- 1969He06: $^{12}\text{C}(^{14}\text{N},^{14}\text{N})$ E=22.5 MeV, measured $\sigma(\theta)$.
 1970Vo02: $^{12}\text{C}(^{14}\text{N},^{14}\text{N}),(^{14}\text{N},^{14}\text{N}')$ E=78 MeV, measured $\sigma(\theta)$. DWBA analysis.
 1971Ko11: $^{12}\text{C}(^{14}\text{N},^{14}\text{N})$ E=65-88 MeV, measured $\sigma(E,\theta)$. Deduced optical model parameters.
 1971Vo01: $^{12}\text{C}(^{14}\text{N},^{14}\text{N})$ E_{c.m.}=9.65,9.85 MeV, measured $\sigma(\theta)$.
 1974Ko38: $^{12}\text{C}(^{14}\text{N},^{14}\text{N})$ E=50-90 MeV, measured $\sigma(E,\theta)$. Deduced optical model parameters. $^{12}\text{C}(^{14}\text{N},^{14}\text{N}')$, measured $\sigma(\theta)$.
 1975Ec03: $^{12}\text{C}(^{14}\text{N},^{14}\text{N})$ E=15.0-25.0 MeV, measured $\sigma(E,\theta)$.
 1975Ra33: $^{12}\text{C}(^{14}\text{N},^{14}\text{N})$ E=155 MeV, analyzed data.
 1977To02: $^{12}\text{C}(^{14}\text{N},^{14}\text{N}),(^{14}\text{N},^{14}\text{N}')$ E=155 MeV, measured $\sigma(\theta)$. Deduced optical potentials. ^{12}C levels deduced β .
 1979Mo14: $^{12}\text{C}(^{14}\text{N},^{14}\text{N})$ E=65.8-95.2 MeV, measured $\sigma(E,\theta)$. Optical model, exact finite-range-DWBA analysis.
 1981Co11: $^{12}\text{C}(^{14}\text{N},^{14}\text{N})$ E=45-60 MeV, measured $\sigma(E,\theta)$. Deduced reaction mechanism.
 1988Ar23: $^{12}\text{C}(^{14}\text{N},^{14}\text{N}),(^{14}\text{N},^{14}\text{N}')$ E=86 MeV, measured $\sigma(E(^{14}\text{N}))$. Deduced model parameters.
 1990Br21: $^{12}\text{C}(^{14}\text{N},^{14}\text{N})$ E=280 MeV, measured $\sigma(\theta)$. Deduced model parameters.
 1990De13: $^{12}\text{C}(^{14}\text{N},^{14}\text{N})$ E=80.73,100.3 MeV, analyzed $\sigma(\theta)$. Deduced model parameters.
 1997Zi05: $^{12}\text{C}(^{14}\text{N},^{14}\text{N}),(^{14}\text{N},^{14}\text{N}')$ E=116 MeV, measured $\sigma(\theta)$. Deduced reaction mechanism. ^{12}C deduced deformation parameters.

 ^{12}C Levels

$E(\text{level})^\dagger$
0
4.4×10^3
7.7×10^3
9.6×10^3
10.8×10^3
11.8×10^3
12.7×10^3
13.4×10^3
14.1×10^3

[†] See unpublished reference in (1975Aj02).